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**WHAT IS CLAIMED IS:**

1. A luminous composition, comprising:  
 cement; and  
 micro-capsules comprising an alkaline earth metal aluminate  
 5 encapsulated in a light-transmitting resin, light-transmitting glass or combination  
 thereof.
2. A luminous composition, comprising:  
 hydraulic cement;  
 a polymer;  
 10 limestone; and  
 micro-capsules comprising an alkaline earth metal aluminate  
 encapsulated in a light-transmitting resin, light-transmitting glass or combination  
 thereof.
3. The composition of claim 2, wherein the alkaline earth metal  
 15 aluminate is a strontium aluminate.
4. The composition of claim 2, wherein the polymer is a polyvinyl  
 acetate polymer.
5. The composition of claim 2, wherein the light-transmitting glass  
 is a silica glass.
6. The composition of claim 2, wherein the light-transmitting resin  
 20 is an acrylic resin.
7. The composition of claim 2, wherein the micro-capsules range in  
 size from about 0.7  $\mu\text{m}$  to about 135  $\mu\text{m}$ .

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8. The composition of claim 2, further comprising silica.

9. The composition of claim 2, comprising about 16% by weight hydraulic cement, about 14% by weight polymer, about 45% to about 60% by weight limestone, about 15% by weight micro-capsules of alkaline earth metal aluminate and optionally about 7% to about 10% by weight silica.

10. The composition of claim 2, wherein less than about 30% of the encapsulated aluminate is fractured.

11. A luminous composition comprising:  
hydraulic cement;  
10 a polymer;  
limestone;  
a curing decelerant;  
an anti-foaming agent; and  
micro-capsules of an alkaline earth metal aluminate encapsulated in a  
15 light-transmitting, resin, glass or combination thereof.

12. The composition of claim 11, further comprising silica.

13. The composition of claim 11, wherein the polymer is a polyvinyl acetate polymer.

14. The composition of claim 11, wherein the light-transmitting glass  
20 is a silica glass.

15. The composition of claim 11, wherein the light-transmitting resin is an acrylic resin.

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16. The composition of claim 11, wherein the micro-capsules range in size from about 0.7  $\mu\text{m}$  and about 200  $\mu\text{m}$ .

17. The composition of claim 11, wherein the alkaline earth metal aluminate is a strontium aluminate.

5           18. The composition of claim 10, comprising about 16% by weight cement, about 14% by weight polymer, about 55% to about 60% by weight limestone, about 0.15% by weight curing decelerant, about 0.10% by weight anti-foaming agent, about 10% by weight encapsulated alkaline earth metal aluminate and optionally about 4.5% by weight silica.

10           19. The composition of claim 11, wherein less than about 30% of the encapsulated aluminate is fractured.

          20. A luminous composition comprising:  
          hydraulic cement;  
          silica sand;  
15           a polymer;  
          a thickener;  
          a whitener; and  
          micro-capsules comprising an alkaline earth metal aluminate  
          encapsulated in a light-transmitting resin, light-transmitting glass or combination  
20           thereof.

          21. The composition of claim 20, wherein the polymer is a vinyl acetate ethylene copolymer.

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22. The composition of claim 20, wherein the light-transmitting glass is a silica glass.

23. The composition of claim 20, wherein the light-transmitting resin is an acrylic resin.

5           24. The composition of claim 20, wherein the micro-capsules range in size from about 0.7  $\mu\text{m}$  and about 200  $\mu\text{m}$ .

25. The composition of claim 20, wherein the alkaline earth metal aluminate is a strontium aluminate.

10           26. The composition of claim 20, comprising about 38% by weight cement, about 43.9% by weight silica sand, about 4% by weight polymer, about 0.1% by weight curing decelerant, about 4% by weight titanium dioxide and about 10% by weight encapsulated alkaline earth metal aluminate.

27. The composition of claim 20, wherein less than about 30% of the encapsulated aluminate is fractured.

15           28. An alkaline earth metal aluminate powder comprising a plurality of micro-capsules of an alkaline earth metal aluminate encapsulated in a light-transmitting resin, glass or combination thereof, wherein the micro-capsules range in size from about 0.7  $\mu\text{m}$  and about 200  $\mu\text{m}$  and wherein less than about 30% of the encapsulated aluminate is fractured.

20           29. A method of making an alkaline earth metal aluminate powder, the method comprising cooling an alkaline earth metal aluminate encapsulated in a

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light-transmitting, resin, glass or combination thereof to a temperature of about -250°F to about -350°F; and

rendering the encapsulated aluminate into a powder comprising micro-capsules of the alkaline earth metal aluminate encapsulated in the light-transmitting resin,

5 light-transmitting glass or combination thereof, the micro-capsules ranging in size from about 0.7  $\mu\text{m}$  to about 200  $\mu\text{m}$ , wherein less than about 30% of the encapsulated aluminate is fractured.

30. The method of claim 29, wherein when the aluminate is encapsulated in a light-transmitting resin, the method further comprises heating the powder to a temperature about equal to or less than the resin's glass transition temperature.

31. An alkaline earth metal aluminate powder made by the process of claim 29.

32. A method of making a luminous composition, the method comprising cooling an alkaline earth metal aluminate encapsulated in a light-transmitting resin, light-transmitting glass or combination thereof to a temperature of about -250°F to about -350°F;

rendering the encapsulated alkaline earth metal aluminate into a powder comprising micro-capsules comprising the alkaline earth metal aluminate encapsulated in the light-transmitting, resin, light-transmitting glass or combination thereof, the micro-capsules ranging in size from about 0.7  $\mu\text{m}$  to about 200  $\mu\text{m}$ ; and

combining the aluminate powder with hydraulic cement, a polymer, and limestone to produce a luminous composition.

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33. The method of claim 32, wherein when the aluminate is encapsulated in a light-transmitting resin, the process further comprises heating the powder to a temperature equal to or less than the resin's glass transition temperature before adding it to the hydraulic cement, polymer and limestone.

5           34. The method of claim 32, wherein the alkaline earth metal aluminate is a strontium aluminate.

35. A luminous composition made by the process of claim 32.